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Listing of the Claims

Please amend the claims as follows. This listing of claims will replace all prior versions and listings of claims in the application.

1. (Previously Presented) A compound having the structure (I):

$$\begin{array}{c|c}
R_{2} & R_{1} \\
R_{3} & (E)_{z} & G \\
R_{4} & (I)
\end{array}$$

$$\begin{array}{c|c}
R_{1} & O & R_{6} \\
N & N & N \\
R_{5} & N & N \\
N & O & R_{5}
\end{array}$$

or pharmaceutically acceptable derivative thereof;

wherein each occurrence of A, J, E, D and G is independently CR_A, CR_AR_B, C=O, O, S, NR_A, or N, wherein each occurrence of R_A and R_B is independently hydrogen, a protecting group, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

A and J, J and D, D and E, and D and G are each independently linked by a single or double bond as valency permits;

w, x, y and z are each independently 0, 1, 2, 3, 4, 5 or 6, but the sum of x, y and z is 2-6 and the sum of x and y is 1-6;

 R_1 , R_2 , R_3 and R_4 are each independently hydrogen, halogen, -CN, -OR_C, -SR_C, -NR_CR_D, -(C=O)R_C or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, wherein each occurrence of R_C and R_D is independently hydrogen, a protecting group, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or R_C and R_D , taken together, form a heteroalicyclic or heteroaryl moiety; or wherein any two adjacent groups R_1 , R_2 , R_3 and R_4 , taken together, form an alicyclic or heteroalicyclic moiety, or an aryl or heteroaryl moiety;

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structure:

 R_5 and R_6 are each independently an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; and Q is an epoxycarbonyl moiety having the

wherein R^{Q1} is hydrogen, an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, an oxygen protecting group or a prodrug moiety.

2. (Original) The compound of claim 1, wherein the compound has the structure:

$$\begin{array}{c|c} R_1 & A \\ \hline R_2 & A \\ \hline R_3 & C \\ \hline R_4 & C \\ \end{array}$$

- 3-4. (Canceled).
- 5. (Previously Presented) The compound of claim 1, wherein R_5 is $-CH_2OR_{5a}$ and the compound has the structure:

$$R_{2}$$
 R_{3}
 R_{4}
 $(E)_{z}^{D}$
 $(G)_{w}$
 $(E)_{z}^{N}$
 $(E)_{z}^{O}$
 $(E)_{z}^{O}$
 $(E)_{w}$
 $(E)_{z}^{O}$
 $(E)_{w}$
 $(E)_{z}^{O}$
 $(E)_{w}$
 $(E)_{z}^{O}$
 $(E)_{z$

wherein R_{5a} is hydrogen, an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, an oxygen protecting group or a prodrug moiety.

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6. **(Previously Presented)** The compound of claim 1, wherein R₅ is aryl or heteroaryl and the compound has the structure:

$$R_{2}$$
 R_{3}
 R_{4}
 R_{5}
 R_{4}
 R_{5}
 R_{6}
 R_{7}
 R_{8}
 R_{7}
 R_{8}
 R_{9}
 R_{9}
 R_{1}
 R_{1}
 R_{2}
 R_{3}
 R_{4}
 R_{4}
 R_{4}
 R_{4}
 R_{5}
 R_{4}
 R_{5}
 R_{5}
 R_{6}
 R_{7}
 R_{8}
 R_{4}
 R_{7}
 R_{8}
 R_{8}
 R_{8}

wherein AR is an aryl or heteroaryl moiety.

7. **(Previously Presented)** The compound of claim 1, wherein R_5 is $-CH_2NR_{5a}R_{5b}$ or heteroaryl and the compound has the structure:

$$R_{2}$$
 R_{3}
 R_{4}
 $(E)_{z}$
 $(A)_{x(J)_{y}}$
 $(B)_{w}$
 $(A)_{x(J)_{y}}$
 $(B)_{w}$
 $(B)_{x(J)_{y}}$
 $($

wherein R_{5a} and R_{5b} are each independently hydrogen, a nitrogen protecting group, an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or a prodrug, or R_{5a} and R_{5b} , taken together, form a heteroalicyclic or heteroaryl moiety.

Claims 8-12. (Canceled).

13. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1, and A, J_{1} , and E are each CH_{2} and D is CH.

14-15. (Canceled).

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- 16. (Previously Presented) The compound of claim 1, wherein G is CH₂ and w is 0, 1, or 2.
- 17. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, J₇. Θ_7 and E are each CH₂; Ω is CH₂ G is CH₂ and w is 0, 1, or 2.
- 18. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, J, D, and E are each CH₂, <u>D is CH</u> and the compound has the structure:

wherein w is 0, 1 or 2; and R_1 , R_2 , R_3 and R_4 are each independently hydrogen, OR_C , halogen, or NR_CR_D , wherein each occurrence of R_C and R_D is independently hydrogen or lower alkyl.

19. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, $J_{+}D_{+}$ and E are each CH_{2} , D is CH and the compound has the structure:

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wherein AR is an aryl or heteroaryl moiety; w is 0, 1 or 2; and R_1 , R_2 , R_3 and R_4 are each independently hydrogen, OR_C , halogen, or NR_CR_D , wherein each occurrence of R_C and R_D is independently hydrogen or lower alkyl.

20. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, J, D, and E are each CH₂, D is CH and the compound has the structure:

$$R_2$$
 R_3
 R_4
 $(CH_2)_w$
 H
 O
 N
 N
 R_{5a}
 R_{5b}

wherein R_{5a} and R_{5b} are each independently hydrogen, a nitrogen protecting group, an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or a prodrug, or R_{5a} and R_{5b} , taken together, form a heteroalicyclic or heteroaryl moiety; w is 0, 1 or 2; and R_1 , R_2 , R_3 and R_4 are each independently hydrogen, OR_C , halogen, or NR_CR_D , wherein each occurrence of R_C and R_D is independently hydrogen or lower alkyl.

21-23. (Canceled).

24. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, $J_{\tau}D_{\tau}$, and E are each CH_2 , D is CH and the compound has the structure:

$$(\mathsf{R}_{\mathsf{C}}\mathsf{O})_{\mathsf{q}} \overset{\mathsf{I}}{\overset{\mathsf{I}}{\mathsf{I}}} \qquad (\mathsf{C}\mathsf{H}_{\mathsf{2}})_{\mathsf{w}} \overset{\mathsf{H}}{\overset{\mathsf{O}}{\mathsf{O}}} \overset{\mathsf{O}}{\mathsf{O}} \mathsf{O}\mathsf{H}$$

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wherein w is 0, 1 or 2, each occurrence of R_C is independently lower alkyl, and q is 0, 1, 2, 3 or 4.

25. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, J, D, and E are each CH₂, D is CH and the compound has the structure:

wherein AR is an aryl or heteroaryl moiety; w is 0, 1 or 2, each occurrence of R_C is independently lower alkyl, and q is 0, 1, 2, 3 or 4.

26. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, $J_{+}D_{+}$, and E are each CH_{2} , D is CH and the compound has the structure:

wherein R_{5a} and R_{5b} are each independently hydrogen, a nitrogen protecting group, an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or a prodrug, or R_{5a} and R_{5b} , taken together, form a heteroalicyclic or heteroaryl moiety; w is 0, 1 or 2, each occurrence of R_C is independently lower alkyl, and q is 0, 1, 2, 3 or 4.

27-29. (Canceled).

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30. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, $J_{\tau}D_{\tau}$ and E are each CH₂, D is CH and the compound has the structure:

wherein w is 0, 1 or 2; and q is 0, 1, 2, 3 or 4.

31. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, $J_{\overline{Y}}$, and E are each CH_2 , D is CH and the compound has the structure:

wherein AR is an aryl or heteroaryl moiety; w is 0, 1 or 2; and q is 0, 1, 2, 3 or 4.

32. (Currently Amended) The compound of claim 1, wherein x, y and z are each 1; A, $J_{+}D_{+}$, and E are each CH_{2} , D is CH and the compound has the structure:

$$(\text{MeO})_{q} \xrightarrow{\text{II}} (\text{CH}_2)_w \xrightarrow{\text{N}} \overset{\text{O}}{\underset{\text{N}}{\text{N}}} \overset{\text{O}}{\underset{\text{N}}{\text{O}}} \text{OH}$$

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wherein R_{5a} and R_{5b} are each independently hydrogen, a nitrogen protecting group, an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or a prodrug, or R_{5a} and R_{5b} , taken together, form a heteroalicyclic or heteroaryl moiety; w is 0, 1 or 2; and q is 0, 1, 2, 3 or 4.

33-37. (Canceled).

- 38. (Currently Amended) The compound of any one of claims 1, 2 or 5-7, wherein x, y and z are each 1 and A-J-D-E together represent <u>-CH₂CH₂CH-CH₂-.-CH₂-CH₂-CH₂-CH₂-.</u>
- 39. **(Currently Amended)** The compound of any one of claims 1, 2 or 5-7, wherein x is 0, y and z are each 1 and J-D-E together represent <u>-CH₂-CH-CH₂-. CH₂-CH₂-CH₂-CH₂-.</u>
- 40. (Canceled).
- 41. **(Currently Amended)** The compound of any one of claims 1, 2 or 5-7, wherein x, y and z are each 1 and A-J-D-E together represent <u>-N=CH-C=N-. N=CH-CH=N-.</u>
- 42. **(Currently Amended)** The compound of any one of claims 1, 2 or 5-7, wherein x, y and z are each 1 and A-J-D-E together represent <u>-CH₂CH₂CH-CH₂-CH₂-CH₂-CH₂-CH₂-CH₂-and G is CH₂ and w is 0, 1 or 2.</u>
- 43. **(Previously Presented)** The compound of claim 1, wherein R₁, R₂, R₃ and R₄ are each independently hydrogen, halogen, protected or unprotected hydroxyl, protected or unprotected thiol, protected or unprotected amino, alkyl, alkoxy, thioalkyl, mono-or disubstituted alkylamino, or wherein any two adjacent groups R₁, R₂, R₃ or R₄, taken together are a cycloalkyl, heterocycloalkyl, aryl or heteroaryl moiety,

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whereby each of the alkyl moieties is independently substituted or unsubstituted, linear or branched, cyclic or acyclic, and each of the aryl and heteroaryl moieties is independently substituted or unsubstituted.

- 44. (Previously Presented) The compound of claim 1, wherein R_1 , R_2 , R_3 and R_4 are each independently hydrogen or lower alkoxy.
- 45. (Previously Presented) The compound of claim 1, wherein R_1 , R_2 , R_3 and R_4 are each independently hydrogen or methoxy.
- 46. (Previously Presented) The compound of claim 1, wherein R_1 , R_2 , R_3 and R_4 are each methoxy.
- 47. (Previously Presented) The compound of claim 1, wherein R_1 is hydrogen and each of R_2 , R_3 and R_4 are independently lower alkoxy.
- 48. **(Previously Presented)** The compound of claim 1, wherein R_1 is hydrogen and each of R_2 , R_3 and R_4 are methoxy.
- 49. **(Previously Presented)** The compound of claim 1, wherein R_5 is alkyl, cycloalkyl, alkenyl, cycloalkenyl, cycloalkynyl, $C_{1-6}OR_{5a}$, $C_{1-6}NR_{5a}R_{5b}$, aryl or heteroaryl; wherein R_{5a} and R_{5b} are each independently hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heteroaryl, $-C(NH_2)=N(NO_2)$, $-C(=O)OR_{5c}$, $-C(=O)R_{5c}$ or a protecting group; wherein R_{5c} is hydrogen, alkyl, alkenyl, alkynyl, aryl or heteroaryl.
- 50. (Previously Presented) The compound of claim 1, wherein R₅ is alkyl, cycloalkyl, -CH₂OR_{5a}, -CH₂NR_{5a}R_{5b}, -CH₂aryl or -CH₂heteroaryl; wherein R_{5a} and R_{5b} are each independently hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heteroaryl, -

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 $C(NH_2)=N(NO_2)$, $-C(=O)OR_{5c}$, $-C(=O)R_{5c}$ or a protecting group; wherein R_{5c} is hydrogen, alkyl, alkenyl, alkynyl, aryl or heteroaryl.

- 51. **(Previously Presented)** The compound of claim 1, wherein R_5 is alkyl, cycloalkyl, CH_2OR_{5a} , $CH_2NR_{5a}R_{5b}$ or substituted or unsubstituted - CH_2Ph ; wherein R_{5a} and R_{5b} are each independently hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heteroaryl, - $C(NH_2)=N(NO_2)$, - $C(=O)OR_{5c}$, - $C(=O)R_{5c}$ or a protecting group; wherein R_{5c} is hydrogen, alkyl, alkenyl, aryl or heteroaryl.
- 52. (Previously Presented) The compound of claim 1, wherein R₅ is -CH₂OH or benzyl.
- 53. (Previously Presented) The compound of claim 1, wherein R₆ is alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, cycloalkynyl, aryl or heteroaryl.
- 54. (Previously Presented) The compound of claim 1, wherein R₆ is lower alkyl or aryl.
- 55. (Previously Presented) The compound of claim 1, wherein R_6 is - $CH_2CH(CH_3)_2$.
- 56. (Canceled).
- 57. (Currently Amended) The compound of claim $1_{\frac{1}{2}}$ or $2_{\frac{1}{2}}$ or $4_{\frac{1}{2}}$ wherein Q has the structure:

58. (Previously Presented) The compound of claim 57, wherein Q has the structure:

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59-62. (Canceled).

63. **(Previously Presented)** A pharmaceutical composition comprising a compound of claim 1; and

a pharmaceutically acceptable carrier or diluent, and optionally further comprising an additional therapeutic agent.

- 64. (Original) The pharmaceutical of claim 63 wherein the compound is present in an amount effective to exert an antiproliferative and/or anticancer effect.
- 65. (Original) The pharmaceutical of claim 63 wherein the compound and the additional therapeutic agent are present in an amount effective to exert an antiproliferative and/or anticancer effect.
- 66. **(Original)** The pharmaceutical of claim 63 wherein the compound is present in an amount effective to exert an anti-inflammatory effect.
- 67. **(Original)** The pharmaceutical of claim 63 wherein the compound and the additional therapeutic agent are present in an amount effective to exert an anti-inflammatory effect.
- 68. **(Previously Presented)** A method for treating cancer comprising: administering to a subject in need thereof a therapeutically effective amount of a compound of claim 1; and

optionally further administering an additional therapeutic agent.

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- 69. **(Original)** The method of claim 68, wherein the method is used to treat prostate, breast, colon, bladder, cervical, skin, testicular, kidney, ovarian, stomach, brain, liver, pancreatic or esophageal cancer or lymphoma, leukemia, or multiple myeloma.
- 70. (Original) The method of claim 68, wherein the cancer is a solid tumor.
- 71-80. (Canceled).
- 81. (Currently Amended) The compound of claim 2, wherein Q is a moiety having the structure:

82. **(Previously Presented)** The compound of claim 81, wherein Q is a moiety having the structure:

83. (New) A compound having the structure:

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or pharmaceutically acceptable derivative thereof;

wherein each occurrence of J, D and G is independently CR_A, CR_AR_B, C=O, O, S, NR_A, or N, wherein each occurrence of R_A and R_B is independently hydrogen, a protecting group, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety;

J and D, and D and G are each independently linked by a single or double bond as valency permits;

w is independently 0, 1, 2, 3, 4, 5 or 6,

 R_1 , R_2 , R_3 and R_4 are each independently hydrogen, halogen, -CN, -OR_C, -SR_C, -NR_CR_D, -(C=O)R_C or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, wherein each occurrence of R_C and R_D is independently hydrogen, a protecting group, or an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, or R_C and R_D , taken together, form a heteroalicyclic or heteroaryl moiety; or wherein any two adjacent groups R_1 , R_2 , R_3 and R_4 , taken together, form an alicyclic or heteroalicyclic moiety, or an aryl or heteroaryl moiety;

R₅ and R₆ are each independently an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety; and Q is an epoxycarbonyl moiety having the

wherein R^{Q1} is hydrogen, an aliphatic, alicyclic, heteroaliphatic, heteroalicyclic, aryl or heteroaryl moiety, an oxygen protecting group or a prodrug moiety.

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- 84. (New) The compound of claim 83, wherein J is CH₂ and D is CH.
- 85. (New) The compound of claim 83, wherein the compound is:

86. **(New)** The compound of claim 1, wherein the compound is selected from the group consisting of the following compounds:

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87. The compound of claim 86, wherein the compound is selected from the group consisting of the following compounds: